

Product datasheet for **RC219501**

ANO9 (NM_001012302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANO9 (NM_001012302) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANO9
Synonyms:	PIG5; TMEM16J; TP53I5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC219501 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

 ATGCAGGGCGAAGAGAGCCTCCGGATCCTGGTGGAGCCGAAGGGGACAGCTTCCCGCTGATGGAGATCA
GCACCTGTGAGACCGAGGCCTCCGAGCAGTGGGACTATGTCTCGTGGCCCAACGTACACCCAGAGAGA
CCCCCGGCAGGCGCGCAGCAACAGTTCTTGAGGAGCTCAGGAGAAAGGGCTTCCACATTAAGGTGATC
CGGGACCAGAAACAGGTCTTCTTTGGGATCCGTGCTGACAACAGTGTCTTTGGCCTGTACCGCACTCTCC
TCTGGAGCCTGAGGGGCCTGCCCCACGCCGAGCTGGCCGCGCCGACCACCATCCCGGTACCCAGAG
TCTCAGAATCCGAATCGTGAACCTCGTTGTATGAACAACAAGACCTCGGCTGGTGAACCTTCGAGGAT
CTGATGAAGGACGGGTCTTTGAGGCCAGGTTCCTCCGAGCAGCCAGTTGATGAAATCAGGAACTACTTTGGGAAAAGGT
GGGCGCGGTGGAGACACATGTTCCGGGAGCAGCCAGTTGATGAAATCAGGAACTACTTTGGGAAAAGGT
GGCCTGTACTTCGTCTGGCTGGCTGGTACACCTACATGCTGGTGCCGCGCCCTGACGGGCCTCTTA
GTCTTTCTGAGCGGATTCTCGCTGTTTGAAGCCAGCCAGATCAGCAAGGAGATCTGTGAGGCCACAGACA
TCCTCATGTGTCCCTCGGCGACCACAGCCGAGGTACAGCGGCTCTCGGAAACCTGCACCTTTGCCAA
GCTCACCCACCTCTTTGACAATGATGGCAGGTGGTGTTCGCCATCTTCATGGCTCTCTGGGCCACGGTG
TTCCTGGAGATCTGGAAGCGGCAGCGCGCCGCGTGGTCTGCACTGGGACCTGTACGTGTGGGACGAGG
AACAGGAGGAAATGGCACTTCAGCTCATTAACTGCCCCGACTACAAGCTCCGGCCATACCAGCACTCCTA
CCTACGCAGCACCGTCATCCTCGTCTGACCCTGCTCATGATCTGCCTCATGATCGGCATGGCCACGTC
CTGGTGGTCTACCGCGTCTGGCCTCCGCGCTCTTCAGCAGCTCGGCCGTGCCCTTCTGGAGGAGCAGG
TGACCACGGCCGTGGTGGTGACCGGGCTCTGGTGCACTATGTGACCATCGTCATCATGACCAAGATCAA
CAGGCGCGTGGCCTGAAGCTTTGTGACTTCGAGATGCCAGGACCTTCTCGGAGCGAGAGAGCAGGTTT
ACCATCCGCTTCTTCACTGCACTGAGTTCTTACCCATTTCTCGTCTCTCATCTACATCGCCTTCATCTGG
GCAGGATCAACGGCCACCCCGGAAGTCCACGCGCTGGCGGGCTTGTGGAAGCTGGAAGAGTGCCACGC
CAGCGGTGCATGATGGACCTCTTCGTGCAGATGGCCATCATCATGGCCTGAAGCAGACGCTCAGCAAC
TGCGTCGAGTACCTGGTCCCGTGGGTGACCCACAAGTCCGCTCTCTGCGGGCTCCGAGTCCGGGCACC
TGCCCCGGGACCCGAGCTCAGGACTGGCGGCGCAACTACCTTCTGAACCCGGTCAACACCTTCAGCCT
GTTTCGACGAGTTCATGGAGATGATGATCCAGTACGGCTTACCACCATCTTCGTGGCCGCTTCCCGCTG
GCGCCGCTGCTCGCGCTCTTCAGCAACCTCGTGGAGATCCGCTGGACGCCATCAAGATGGTCTGGTTGC
AGCGGCGCTGTTGCCGCAAGGCCAAGGACATCGGGACCTGGCTGCAGGTGCTGGAGACCATCGGTGT
GCTGGCGGTCAATTGCAATGGGATGGTCAATTGCCTTCACATCTGAGTTTATCCCCGAGTGGTCTACAAG
TACCGCTATAGCCATGCCTGAAAGAAGGCAACTCTACTGTCGACTGCCTCAAGGGCTACGTCAACCACA
GCCTGTCCGTCTTCCACCAAGGACTTCCAGGACCTGATGGGATTGAGGGCTCAGAAAACGTGACTCT
GTGCAGATACAGGACTACCGCAATCCCCCGATTACAACCTTCCGAGCAGTTCTGGTTCTCTGGCC
ATCCGCTGGCCTTCGTATCTCTTTGAGCACGTGGCCTTGTGCATCAAGCTCATCGCCGCTGGTTTCG
TGCCCGACATCCCTCAGTCGGTGAAGAACAGGTTCTGGAGGTGAAGTACCAGAGGCTGCGTGAGAAGAT
GTGGCATGGAAGCAGAGGCTGGTGGGTGGGGCAGGCTCTCGGCCCAATGCCTGCCATCCCACC
CCAGCATCCATCTTCAGTGCCAGGAGCACAGACGTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219501 protein sequence
 Red=Cloning site Green=Tags(s)

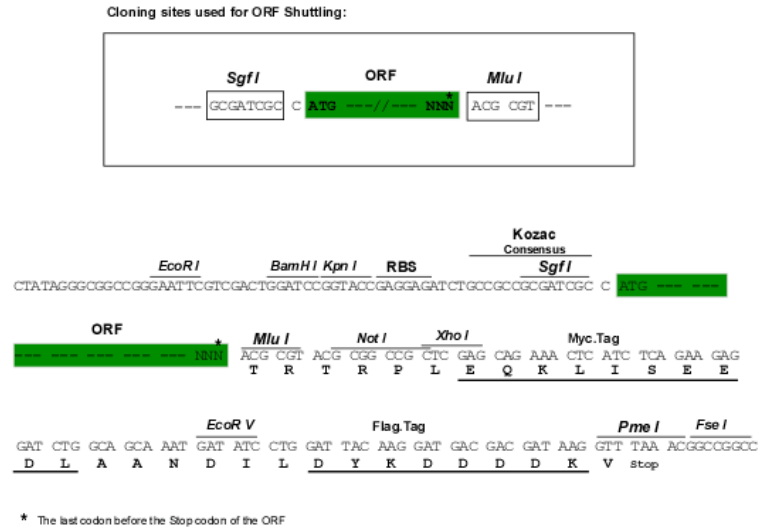
MQGEESLRILVEPEGDSFPLMEISTCETEASEQWDYVLVAQRHTQRDPRQARQQQFLEELRRKGFHIKVI
 RDQKQVFFGIRADNSVFGLYRTLLEPEGPAPHAELAAPTIPVTTSLRIRIVNFVVMNNKTSAGETFED
 LMKDGVFEARFPLHKGEGRLLKKTWARWRHMFREQPVDEIRNYFGEKVALYFVWLGWYTYMLVPAALTGLL
 VFLSGFSLFEASQISKEICEAHDILMCPLGDHSRRYQRLSETCTFAKLTHLFDNDGTVVFAIFMALWATV
 FLEIWKQRARVVLHWDLYVWDEEQEEMALQLINCPDYKLRPYQHSYLRSTVILVLTLLMICLMIGMAHV
 LVVYRVLASALFSSSAVPFLEEQVTTAVVVTGALVHYVTIVIMTKINRRVALKLCDFEMPRTFSERESRF
 TIRFFTLQFFTHFSSLIYIAFILGRINGHPGKSTRLAGLWKLEECHASGCMMDLFVQMAIIMGLKQTLN
 CVEYLVPWVTHKCRSLRASESGHLPRDPELRDWRNYLLNPVNTFSLFDEFMEMMIQYGFTTIFVAAFPL
 APLLALFSNLVEIRLDAIKMVWLQRRLVPRKAKDIGTWLQVLETIGVLAVIANGMVIIFTSEFIPRVVYK
 YRYSPLKEGNSTVDCLKGYVNHSLSVFHTKDFQDPDGIEGSENVTLCRYRDYRNPPDYNFSEQFWFLA
 IRLAFVILFEHVALCIKLIAAWFVPDIPQSVKNKVLEVKYQRLREKMWHGRQRLGGVGAGSRPPMPAHPT
 PASIFSARSTDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6440_d05.zip

Restriction Sites: SgfI-MluI

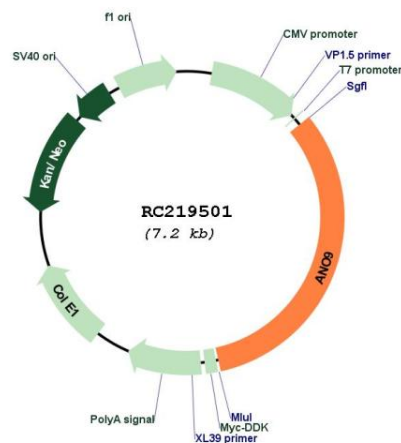
Cloning Scheme:



ACCN:	NM_001012302
ORF Size:	2346 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001012302.1, NP_001012302.1</u>
RefSeq Size:	2879 bp
RefSeq ORF:	2349 bp
Locus ID:	338440
UniProt ID:	<u>A1A5B4</u>
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, Transmembrane
MW:	90.4 kDa
Gene Summary:	The protein encoded by this gene is a member of the TMEM16 (anoctamin) family of proteins, some of which form integral membrane calcium-activated chloride channels. The function of the encoded protein has yet to be elucidated, although it may have channel-forming abilities and also may have phospholipid scramblase activity. This gene has been observed to be upregulated in stage II and III colorectal cancers. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RC219501